



NOTE: CURVING PORTIONS OF  
4" P.C. TRAIL TO BE CONNECTED  
WITH STRAIGHT TANGENTS AND/OR  
TRAIL-EDGE RADII SHOWN.

#### GENERAL GRADING NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH:
  - CITY OF RANCHO PALOS VERDES DEVELOPMENT CODE, CHAPTER 6, PART 6.
  - THE COUNTY OF LOS ANGELES BUILDING CODE, CHAPTER 70 - EXCAVATION & GRADING.
  - THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1979 EDITION (GREEN BOOK).
  - THE PROJECT SPECIFICATIONS AND CONTRACT DRAWINGS.
  - THE UNIFORM BUILDING CODE.WHENEVER STANDARDS DEViate IN CONTEXT ON ANY SUBJECT MATTER, THE CITY ENGINEER OR HIS REPRESENTATIVE WILL DETERMINE WHICH STANDARD WILL GOVERN.
- THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE SITE SHALL BE CLEARED OF EXISTING STRUCTURES, PAVEMENTS, VEGETATION AND MISCELLANEOUS DEBRIS. HOLES RESULTING FROM THE REMOVAL OF BURIED OBSTRUCTIONS, SUCH AS CESSPOOLS, WHICH EXTEND BELOW FINISHED SITE GRADES, SHALL BE BACKFILLED WITH COMPACTED FILL.
- ALL EXISTING UNCOMPACTED FILL SOILS ENCOUNTERED SHALL BE REMOVED DOWN TO COMPETENT NATURAL GROUND. NATURAL GROUND WILL GENERALLY CONSIST OF MEDIUM DENSE SILTY SAND AND/OR SILTSTONE BEDROCK. EXISTING FILL SOILS ENCOUNTERED ON-SITE MAY BE RE-USED AS COMPACTED FILL WITH FINAL APPROVAL OF SOILS ENGINEER.
- PRIOR TO PLACING ROADWAY FILL, STRUCTURAL FILL OR BUILDING FOUNDATIONS THE TOP 18" OF EXISTING SURFACE SOILS SHALL BE REMOVED. THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 6" TO 12", BROUGHT TO NEAR OPTIMUM MOISTURE CONDITIONS, THEN COMPACTED TO A MINIMUM 90% RELATIVE COMPACTION. ROADWAYS OR STRUCTURES PLACED WITHIN CUT AREAS SHALL BE OVEREXCA-

- VATED AS NEEDED TO ACCOMMODATE THE REMOVAL AND RECOMPACTION OF THE TOP 18" OF THE EXISTING SURFACE SOILS.
- FILL SOILS SHALL BE BROUGHT TO NEAR OPTIMUM MOISTURE CONDITIONS AND COMPACTED IN 6" TO 8" THICK LAYERS TO A MINIMUM OF 90% OF THE MAXIMUM DENSITY.
  - NATURAL SLOPES STEEPER THAN FIVE HORIZONTAL TO ONE VERTICAL SHALL BE BENCHED INTO COMPETENT TERRACE MATERIALS PRIOR TO PLACEMENT OF FILL.
  - ALL PROPOSED FILL SLOPES SHALL BE PROVIDED WITH A KEY AT THE TOE OF THE SLOPE. THE KEY SHALL BE AT LEAST 10' WIDE AND EXTEND AT LEAST 3' INTO UNDISTURBED TERRACE DEPOSITS AT THE DOWNHILL SIDE OF THE KEY.
  - FILL SLOPES SHALL BE TO THE LINES AND GRADES AS SHOWN ON THE CONTRACT DRAWINGS BUT IN NO CASE SHALL FILL SLOPES BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL.
  - ANY SOILS IMPORTED TO THE SITE FOR USE AS FILL OR SUBGRADE MATERIALS SHOULD BE PREDOMINANTLY GRANULAR AND APPROVED BY THE SOILS ENGINEER.
  - CUT SLOPES SHALL BE TO THE LINES AND GRADES AS SHOWN ON THE CONTRACT DRAWINGS BUT IN NO CASE SHALL CUT SLOPES BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL.

#### CONSTRUCTION NOTES

- PROTECT IN PLACE.
- REMOVE & DISPOSE.
- REPLACE OR RECONSTRUCT.
- CLEAR AND GRUB.
- CONSTRUCT 4" P.C. TRAIL W/ 2% CROSS-SLOPE (SEE SHT. L-2).
- CONSTRUCT 4" A.C. / N.S. ROADWAY PER DETAILS ON SHEET C-5.
- GRADE TO DRAIN.
- CONSTRUCT RIP-RAP SPREADING GROIN.
- CONSTRUCT RIP-RAP DITCH PER TYPICAL SECTION.
- CONSTRUCT EARTH DITCH PER TYPICAL SECTION.
- GROUT RIP-RAP DITCH TO FULL DEPTH OF RIP-RAP.

#### EARTHWORK QUANTITIES

##### AREA I (SHEET C-1)

RAW EXCAVATION	15300 C.Y.	
EST. SHRINKAGE (20%)	3100 C.Y.	
NET EXCAVATION	12200 C.Y.	
RAW FILL	5800 C.Y.	
EST. SUBSIDENCE (1/10")	400 C.Y.	
TOTAL FILL	6200 C.Y.	
EXPORT FROM AREA I	6000 C.Y.	

##### AREA IV (SHEETS C-2 & C-3)

RAW EXCAVATION	11200 C.Y.	
EST. SHRINKAGE (20%)	2200 C.Y.	
NET EXCAVATION	9000 C.Y.	
EXPORT FROM AREA I	8000 C.Y.	
TOTAL EXCAVATION AVAILABLE IN AREA IV	15000 C.Y.	
RAW FILL	14000 C.Y.	
EST. SUBSIDENCE (1/10")	700 C.Y.	
TOTAL FILL	14700 C.Y.	
NET EXCESS TO BE STORED IN AREA IV	300 C.Y.	

#### GRADING LEGEND

- PROJECT LIMIT LINE (CLEARING & LANDSCAPING)
- LIMIT OF GRADING
- MAJOR CONTOUR
- CUT & FILL LIMITS
- SLOPE GRADING
- REMOVE AND REPLACE TOP 18" PRIOR TO FILLING (SEE NOTE 5 OF GENERAL GRADING NOTES)

CURVE DATA				
CODE	R	Δ	L	T
(A)	200'	6° 03' 09"	21.13'	10.57'
(B)	180'	6° 03' 09"	19.01'	9.52'

PLANS PREPARED UNDER THE  
SUPERVISION OF  
WARREN W. REINE  
P.E. DATE: 11/11/24

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**DEMOLITION, GRADING  
AND CONTROL**

**SHEET  
C2  
OF**

**JOB D8014**

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PLANNING**  
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REVISION	DATE	BY	APPR	CHKD	DATE

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